

Colorado Department of Public Health and Environment

OPERATING PERMIT

Platte River Power Authority Rawhide Energy Station (Turbines)

First Issued: October 1, 2004

AIR POLLUTION CONTROL DIVISION COLORADO OPERATING PERMIT

FACILITY NAME: Rawhide Energy OPERATING PERMIT NUMBER

Station

FACILITY ID: 0690053

RENEWAL DATE: January 1, 2013 EXPIRATION DATE: January 1, 2018

MODIFICATIONS: See Appendix F of Permit

Issued in accordance with the provisions of Colorado Air Pollution Prevention and Control Act, 25-7-101 et seq. and applicable rules and regulations.

ISSUED TO: PLANT SITE LOCATION:

Platte River Power Authority Rawhide Energy Station 2000 East Horsetooth Road 2700 East County Road 82 Fort Collins, CO 80525-5244 Wellington, CO 80549-2105

Larimer County

INFORMATION RELIED UPON

Operating Permit Renewal Application Received: September 25, 2008

And Additional Information Received: November 28, 2008 and May 14, 2012

Nature of Business: Electrical Power Generation and Transmission

Primary SIC: 4911

RESPONSIBLE OFFICIAL FACILITY CONTACT PERSON

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03OPLR261

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SUBMITTAL DEADLINES

First Semi-Annual Monitoring Period: January 1 – March 31, 2013

Semi-Annual Monitoring Period: April 1 – September 30 and October 1 – March 31 Semi-Annual Monitoring Report: May 1 and November 1 2013and subsequent years

First Annual Compliance Period: January 1 – September 30, 2013 Annual Compliance Period: October 1 - September 30

Annual Compliance Certification: November 1, 2013 and subsequent years

Note that the Semi-Annual Monitoring Report and the Annual Compliance Certification must be received at the Division office by 5:00 p.m. on the due date. Postmarked dates will not be accepted for the purposes of determining the timely receipt of those reports.

FOR ACID RAIN SUBMITTAL DEADLINES SEE SECTION III.4 OF THIS PERMIT

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SECTION I - General Activities and Summary

1. Permitted Activities

1.1 The units included in this permit are four GE Model 7EA and one GE Model 7FA natural gas fired combustion turbines, designed to operate in a simple cycle mode, each rated at a nominal heat input of 900 MMBtu/hour and 1,700 MMBtu/hour, respectively. The facility provides peak electrical generation capacity, and is defined under Standard Industrial Classification 4911. The turbines are equipped with integral dry low NO_X combustion systems. In addition, each Model 7EA turbine is equipped with inlet air fog cooling systems for power augmentation. The turbines are part of the Rawhide Energy Station, which also includes a coal fired boiler and associated coal, ash and lime handling systems. These collocated sources are permitted under Operating Permit 96OPLR142.

The facility is located at 2700 East County Road 82, north of Wellington. The area in which the plant operates is designated as attainment for all pollutants.

Wyoming is an affected state within 50 miles of the plant. There are two Federal Class I designated areas within 100 kilometers of the facility: Rocky Mountain National Park and Rawah National Wilderness Area.

- 1.2 Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air pollutants from this facility in accordance with the requirements, limitations, and conditions of this permit.
- 1.3 This Operating Permit incorporates the applicable requirements contained in the underlying construction permits, and does not affect those applicable requirements, except as modified during review of the application or as modified subsequent to permit issuance using the modification procedures found in Regulation No. 3, Part C. These Part C procedures meet all applicable substantive New Source Review Requirements of Part B. Any revisions made using the provisions of Regulation No. 3, Part C shall become new applicable requirements for purposes of this operating permit and shall survive reissuance. This permit incorporates the applicable requirements (except as noted in Section II) from the following construction permits: 00LR0173, 01LR0056, 03LR0573 and 07LR0017.
- All conditions in this permit are enforceable by US Environmental Protection Agency, Colorado Air Pollution Control Division (hereinafter Division) and its agents, and citizens unless otherwise specified. **State-only enforceable conditions are:** Permit Condition Number(s): Section II, Condition 1.10.3 (opacity) and Section V Conditions 3(g), 14, and 18 (as noted).
- 1.5 All information gathered pursuant to the requirements of this permit is subject to the Recordkeeping and Reporting requirements listed under Condition 22 of the General Conditions in Section V of this permit.

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2. Alternative Operating Scenarios

2.1 No alternative operating scenarios were requested for this operating permit.

3. Prevention Of Significant Deterioration (PSD)

- 3.1 Based on the information provided by the applicant, this facility is categorized as a major stationary source (Potential to Emit > 100 Tons/Year) as of the issue date of this permit. Future modifications at this facility resulting in a significant net emissions increase (see Colorado Regulation No. 3, Part A, Section I.B.37 and 58) for any pollutant as listed in Regulation No. 3, Part A, Section I.B.58 or a modification which is major by itself may result in the application of the PSD review requirements.
- 3.2 The following Operating Permit is associated with this facility for purposes of determining applicability of New Source Review regulations: 96OPLR142.

4. Accidental Release Prevention Program (112(r))

4.1 Based on the information provided by the applicant, this facility is not subject to the provisions of the Accidental Release Prevention Program (section 112(r)) of the Federal Clean Air Act.

5. Compliance Assurance Monitoring (CAM)

5.1 The following emission points at this facility use a control device to achieve compliance with an emission limitation or standard to which they are subject and have pre-control emissions that exceed or are equivalent to the major source threshold. They are therefore subject to the provisions of the CAM program as set forth in 40 CFR Part 64, as adopted by reference in Colorado Regulation No. 3, Part C, Section XIV:

None. (No add on control equipment)

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6. Summary of Emission Units

6.1 The emissions units regulated by this permit are the following:

| AIRS Stack Number | Facility Identifier | Description | Pollution Control |
|--------------------------|---------------------------------|--|-----------------------------------|
| 035, 036, 037, 040 | S601, S602, S603, S604 | Four (4) General Electric Model Frame 7EA, S/Ns: 297833 (Unit A), 298021 (Unit B), 298022 (Unit C), and 298162 (Unit D) Natural Gas Fired, Simple Cycle Combustion Turbines, Site Input Nominally Rated at 900 MMBtu/hour each. Equipped with Advanced Low NO _X Combustion Systems and Inlet Air Fog Cooling Systems for power augmentation | Low NO _X Combustion |
| 041 | S605 | One (1) General Electric Model Frame 7FA, S/N: 298744 (Unit F) Natural Gas Fired, Simple Cycle Combustion Turbine, Input Nominally Rated at 1,700 MMBtu/hour. Equipped with an Advanced Low NO _X Combustion System. | Low NO _X Combustion |

SECTION II - Specific Permit Terms

1. S601, S602, S603, S604 – Four (4) Natural Gas Fired GE 7EA Turbines, Nominally Rated at 900 MMBtu/hour each

S605-One~(1)~Natural~Gas~Fired~GE~7FA~Turbine, Nominally~Rated~at~1,700~MMBtu/hr

Note: These requirements apply to **each** turbine unless otherwise noted.

| Parameter | ter I Condition I Limitations I 1 | | Compliance Emission Factor | Monitoring Method Interval | |
|------------------|-----------------------------------|--|--|--|---|
| PM | 1.1 | S601-4: 28.9 tons/year S605: 39.1 tons/year | S601-4: 0.020 lb/mmBtu or tested rate S604: 18 lb/hr or tested rate | Recordkeeping Calculation 12 month rolling | Monthly |
| | 1.3 | 0.1 lb/mmBtu, average of three (3), 1-hr tests | | Fuel Restriction | Whenever Natural Gas Used as Fuel |
| PM ₁₀ | 1.1 | S601-4: 28.9 tons/year S605: 39.1 tons/year (includes condensables) | S601-4: 0.020 lb/mmBtu or tested rate S604: 18 lb/hr or tested rate | Recordkeeping Calculation 12 month rolling | Monthly |
| | 1.7.3 | BACT: Good Combustion Control Practices S601-4: 0.021 lb/mmBtu S605: 0.0135 lb/mmBtu, 18 lb/hr Average of three (3) 1-hr tests | | Fuel Restriction | Whenever Natural Gas Used as Fuel |
| SO ₂ | 1.1 | S601-604 : 3.8 tons/year S605 : 1.8 tons/year | 0.0006 lb/mmBtu | Recordkeeping Calculation 12 month rolling | Monthly |
| | 1.5.2 1.5.3 | S601-4: 150 ppmvd @ 15% O ₂ OR Use of Fuel Which Contains Less than 0.8 Weight % Sulfur | | Fuel Restriction | Whenever Natural Gas is used a fuel |
| | 1.8.2 | S605: 0.90 lb/MWh or 0.060 lb/mmBtu | | | |
| | 1.4.1 | 0.35 lbs/mmBtu, on a 3-hour rolling average | | | |
| NO_X | 1.1 | S601-4: 55.6 tons/year S605: 132.4 tons/year | | Continuous Emission | Continuously |
| | 1.5.1 | S601-4: 100 ppmvd @ 15% O ₂ on a 4-hour rolling average | | Monitor | |
| | 1.8.1 | S605: 15 ppmvd @ 15% O ₂ or, 0.43 lb/MWh 4-hr rolling average | | | |

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| Parameter | Permit Condition Number | Limitations | Compliance Emission Factor | Monito Method | oring Interval |
|-----------|-------------------------------|---|---|--|-------------------|
| | 1.7.3 | S601-4: BACT: 9 ppmvd @ 15% O ₂ on a calendar day average, except as provided for below (Periods of Startup, Shutdown, and Combustion Tuning and Testing are excluded from calendar day average) During Startup and Shutdown: 100 ppmvd @ 15% O ₂ averaged over the startup and/or shutdown period During Combustion Tuning and Testing (not to exceed 120 hr/yr for S601-4 combined): 100 ppmvd @ 15% O ₂ on a 1-hr average S605: BACT: 9 ppmvd @ 15% O2, on a 3-hr basis, except as provided below (Periods of Startup, Shutdown, and Combustion Tuning and Testing are excluded from 3-hr rolling average) During Startup and Shutdown: 100 ppmvd @ 15% O ₂ averaged over the startup and/or shutdown period During Combustion Tuning and Testing (not to exceed 40 hr/yr): 100 ppmvd @ 15% O ₂ on a 1-hr average | | | |
| VOC | 1.1 | S601-4: 3.1 tons/year S605: 27.7 tons/year | Natural Gas: 0.00006 lb/mmBtu or tested rate | Recordkeeping & Calculation 12 month rolling | Monthly |
| СО | 1.1 | S601-4: 89.7 tons/year S605: 80.0 tons/year | | Continuous Emission Monitor | Continuously |

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| Parameter | Permit Condition Limitations Number | | Compliance Emission Factor | Monito Method | oring Interval |
|--|-------------------------------------|---|-------------------------------|--|----------------------------|
| | 1.7.2 | S601-3: BACT: | | | |
| | | 25 ppmvd @ 15% O ₂ on a 1-hr average, except as provided for below | | | |
| | | During Startup and Shutdown: 1,000 ppmvd @ 15% O ₂ averaged over the startup and/or shutdown period | | | |
| | | During Combustion Tuning and Testing (not to exceed 120 hrs/yr for S601-4 combined): 1,000 ppmvd @ 15% O ₂ on a 1-hr average | | | |
| | | Good Combustion Control Practices | | | |
| Fuel Use | 1.2 | S601-4 : 2,776,960 mmBtu/year S605 : 6,060,664 mmBtu/year | | Recordkeeping Fuel Sampling 12 month rolling | Monthly |
| Continuous Emission Monitoring System | 1.6 | | | See Condi | tion 1.6 |
| NSPS General Provisions | 1.9 | | | As required in Provis | |
| Opacity | 1.10.1 | Not to Exceed 20% Except as Provided for in 1.9.2 and 1.9.3 | | Fuel Restriction | Whenever Natural Gas is |
| | 1.10.2 | For Certain Operational Activities - Not to Exceed 30%, for a Period or Periods Aggregating More than Six (6) Minutes in any 60 Consecutive Minutes | | | Used |
| | 1.10.3 | Not to Exceed 20% (state-only) | | | |
| Acid Rain Requirement | 1.11 | See Section III of th | is Permit | Certification | Annually |
| NESHAP Subpart YYYY | 1.12 | S604 a | nd S605 only: See Condition | on 1.12 | |

1.1 Emissions of air pollutants from each turbine shall not exceed the limits listed in the table above. (Construction Permits 00LR0173, 01LR0056, 03LR0573, 07LR0017, and Colorado Regulation No. 3, Part B, III.A.4) (PM/PM₁₀ includes condensables)

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For purposes of monitoring compliance with the emission limitations for VOC, PM, PM₁₀, and SO₂, the permittee shall calculate emissions based on actual fuel use and the emission factors listed above and/or testing emission rate data approved by the Division, and the most recent fuel BTU analysis in the equation below, and maintain a record of rolling twelve month total emissions on site for Division inspection upon request.

$$\frac{tons}{mo} = \frac{Fuel\ use\ \left(\frac{MMScf}{mo}\right) \times Emission\ Factor\ \left(\frac{lb}{MMBtu}\right) \times Fuel\ Heat\ Content\ \left(\frac{MMBtu}{MMScf}\right)}{2000\frac{lb}{ton}}$$

For purposes of monitoring compliance with the emission limitations for NO_X and CO, for any hour in which fuel is combusted in the unit, the permittee shall program the Data Acquisition Handling System (DAHS) to calculate lb/hr emissions in accordance with the requirements in Condition 2.2.1.4 of this permit and 40 CFR Part 75, including any replaced data and the data shall be bias-adjusted, if warranted. Specifically hourly mass emissions (in lb/hr) shall be calculated by multiplying the hourly Part 75 lb/MMBtu value (which includes replaced or bias-adjusted data, as applicable) by the hourly heat input value (MMBtu/hr) determined from the fuel flow meter measurements and analyzed fuel heat content. The hourly lb/MMBtu and heat input values are determined using equations F-5 and F-20 in Appendix F of 40 CFR Part 75. The resulting lb/hr value is then multiplied by the unit operating time for that hour to produce a lb value. Hourly mass emissions (lb) shall be summed and divided by 2000 lbs/ton to determine monthly emissions (in tons).

Compliance with the annual limits shall be monitored on a rolling (12) month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data.

Heat input into each combustion turbine through pipeline quality natural gas shall not exceed the limits listed in the table above. (Construction Permits 00LR0173, 01LR0056, 03LR0573, and 07LR0017)

Compliance with the annual limits shall be monitored on a rolling (12) month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data.

The heat input to each turbine shall be monitored and recorded monthly using the data acquisition and handling systems (DAHS) for the continuous emission monitoring systems (CEMS) required by Condition 2.1.

1.3 No owner or operator shall cause or permit to be emitted into the atmosphere from any fuel-burning equipment, particulate matter in the flue gases which exceeds 0.1 lb/mmBtu heat input.(Colorado Regulation No. 1, III.A.1.c)

In the absence of credible evidence to the contrary, compliance with the particulate matter emission limit is presumed whenever natural gas is used as fuel in the turbines.

1.4 Sulfur Dioxide (SO₂) emissions shall not exceed the following limitations:

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1.4.1 Sulfur Dioxide (SO₂) emissions **from each turbine** shall not exceed 0.35 lbs SO₂/mmBtu of heat input. (Colorado Regulation No. 1, Section VI.B.4.c.(ii)). The averaging time for all new source emissions standards for sulfur dioxide shall be three (3) hours, and any three-hour rolling average of emission rates which exceeds these standards is a violation of this regulation. (Colorado Regulation No. 1, VI.B.2)

In the absence of credible evidence to the contrary, compliance with this SO_2 limitation is presumed whenever natural gas is used as fuel in these turbines.

- 1.5 **S601-4:** Each turbine is subject to 40 CFR Part 60, Subpart GG Standards of Performance for Stationary Gas Turbines, as adopted by reference in Colorado Regulation No. 6, Part A.
 - 1.5.1 No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain nitrogen oxides in excess of 0.010 percent by volume at 15 percent oxygen and on a dry basis. (60.332(a)(1))

The CEMS required by Condition 1.6 of this permit shall be used to monitor compliance with the NO_X emission limit. Note: The missing data substitution methodology provided for at 40 CFR Part 75, Subpart D, is not required for purposes of identifying excess emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in 60.7(c). (60.334(b)(3)(iii))

For each affected unit required to continuously monitor emissions under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime in accordance with 60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For purpose of reports required under 60.7(c), periods of excess emissions that shall be reported are defined as set forth in 60.334(j)(1)(iii).

All reports required under 60.7(c) shall be postmarked by the 30^{th} day following the end of each calendar quarter. (60.334(j)(5))

- 1.5.2 No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume (150 ppm) at 15 percent oxygen and on a dry basis (60.333(a)) **OR**
- 1.5.3 No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). (60.333(b))

Notwithstanding the provisions of 60.334(h)(1), the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 60.331(u), regardless

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of whether an existing custom schedule approved by the EPA for Subpart GG requires such monitoring. The owner or operator shall use one of the sources of information listed in 60.334(h)(3) to make the required demonstration.(60.334(h)(3))

For each affected unit required to periodically monitor the fuel sulfur content under this subpart, the owner or operator shall submit reports of excess emissions and monitor downtime in accordance with 60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For purpose of reports required under 60.7(c), periods of excess emissions that shall be reported are defined as set forth in 60.334(j)(2).

All reports required under 60.7(c) shall be postmarked by the 30^{th} day following the end of each calendar quarter. (60.334(j)(5))

- 1.6 **Each** of the turbine exhaust stacks shall be equipped with a continuous emission monitoring system to measure and record the following:
 - 1.6.1 Concentration of Oxides of Nitrogen; ppmvd hourly average, and ppmvd (corrected to 15% O₂) hourly average, 3-hour rolling average;
 - 1.6.2 Emissions of Oxides of Nitrogen; pounds per hour, tons per month, tons per rolling twelve month period, calendar day average;
 - 1.6.3 Concentration of Carbon Monoxide; ppmvd hourly average, and ppmvd (corrected to 15% O₂) hourly average;
 - 1.6.4 Emissions of Carbon Monoxide, pounds per hour, tons per month, tons per rolling twelve month period;
 - 1.6.5 Concentration of Oxygen, percent hourly average;
 - 1.6.6 Operating mode startup, shutdown, combustion tuning/testing or standard operation;
 - 1.6.7 Load, in gross MW, at which turbine is operating; and
 - 1.6.8 Fuel flow rate; hundreds of standard cubic feet per hour (hscf/hour) and Heat Input; mmBtu/hour and total mmBtu/year.

The continuous emission monitoring systems shall meet the requirements in Section II, Condition 2 of this permit. (Construction Permits 00LR0173, 01LR0056, 03LR0573, and 07LR0017, revised in accordance with Section I, Condition 1.3 of this permit)

1.7 The following controls have been determined as Best Available Control Technology (BACT) for various pollutants, and shall be applied for minimization/control of these pollutants as follows:

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- 1.7.1 Oxides of Nitrogen (NOx): Dry Low NOx combustion systems: (Colorado Construction Permits 00LR0173, 01LR0056, 03LR0573, and 07LR0017, as modified under the provisions of Section I, Condition 1.3)
 - 1.7.1.1 **S601-4:** Except as provided for below, emissions of NO_X shall not exceed 9 ppmvd at 15% O₂ (calendar day average based on actual operation, excluding startup, shutdown and combustion tuning/testing periods).
 - **S605:** Except as provided for below, emissions shall not exceed 9 ppmvd at 15% O₂ (3-hour rolling average based on actual operation, excluding startup, shutdown and combustion tuning/testing periods).
 - 1.7.1.2 During startup and shutdown, emissions of NO_X shall not exceed 100 ppmvd at 15% O_2 , averaged over the startup and/or shutdown period.
 - 1.7.1.3 During periods of combustion tuning and testing, emissions of NO_X shall not exceed 100 ppmvd at 15% O₂, on a 1-hour average. Use of this NO_X emission limit for purposes of combustion tuning and testing shall not exceed 120 hours in any calendar year for S601-4 combined and 40 hours per calendar year for S605. Records of the number of hours each turbine undergoes combustion tuning and/or testing shall be recorded and maintained and made available to the Division upon request.
 - 1.7.1.4 "Startup" means the setting in operation of any air pollution source for any purpose. Setting in operation for these turbines begins when fuel is injected into the turbine. Setting in operation for these turbines ends 20 minutes after the turbine reaches pre-mix steady state mode.
 - 1.7.1.5 "Shutdown" means the cessation of operation of any air pollution source for any purpose. The cessation of operation for these turbines begins when the command signal is initiated by the turbine operator to shutdown the unit and ends when fuel is no longer being fired in the turbine.
 - 1.7.1.6 "Combustion Tuning and Testing" means the operation of the unit for combustion tuning and testing operations after a unit overhaul or as part of routine maintenance operations. "Testing" also includes periodically required Western Electricity Coordinating Council (WECC) generator reliability testing. Combustion tuning and testing can occur throughout the range of operating conditions.

Compliance with the NO_X BACT limitations shall be monitored as follows:

1.7.1.7 Compliance with the applicable NO_X BACT emission limitation in Condition 1.7.1.1 shall be monitored using the continuous emission monitoring systems (CEMS) required by Condition 1.6. Except as provided for in Conditions 1.7.1.8 and 1.7.1.9, all the CEMS concentration (ppm) data points, shall at the end of each clock hour, be summarized to generate the average NO_X concentration.
S601-4 only: At the end of each operational calendar day the final average NO_X concentration shall be compared to the limitations in Condition 1.7.1.1. S605

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- **only:** At the end of each non-exempted clock hour the 3-hour rolling average NO_X concentration shall be compared to the limitation in Condition 1.7.1.1.
- 1.7.1.8 Compliance with the NO_X BACT emission limitation in Condition 1.7.1.2 shall be monitored using the CEMS required by Condition 1.6. All concentration (ppm) data points within the startup and/or shutdown period shall be averaged together to generate the average NO_X concentration for a given startup and/or shutdown period. The average NO_X concentration for each startup and shutdown period shall be compared to the limitation in Condition 1.7.1.2.

In the event that the startup ends within a clock hour or the shutdown begins within a clock hour, all non-startup and/or non-shutdown concentration (ppm) data points within that clock hour shall be averaged together to generate the average NO_X concentration. That average concentration shall be included in the calendar day average and compared to the limitation in Condition 1.7.1.1.

1.7.1.9 Compliance with the NO_X BACT limitations in Conditions 1.7.1.3 shall be monitored using the data generated by the CEMS or by manually calculating hourly concentration averages during the combustion tuning and/or testing period. An average NO_X concentration shall be calculated using all concentration (ppm) data points generated by the CEMS during any <u>actual</u> hour during the combustion tuning and/or testing period and each hourly average shall be compared to the limitations in Condition 1.7.1.3, as appropriate.

For periods of combustion tuning and/or testing that last less than one hour, the average NO_X concentration shall be calculated using all concentration (ppm) data within the combustion tuning and/or testing period.

In the event that combustion tuning and/or testing begins and/or ends within a clock hour, all non-combustion tuning and/or testing concentration (ppm) data points within that clock hour shall be averaged together to generate the average NO_X concentration. That average concentration shall be included in the calendar day average and compared to the limitation in Condition 1.7.1.1.

Hours of combustion tuning and/or testing **for each turbine** (**S601-4**) when burning natural gas shall be summed together to monitor compliance with the 120 hour limit.

- 1.7.2 **S601-3 only:** Carbon Monoxide (CO): Good Combustion Control Practices: (Colorado Construction Permits 00LR0173 and 01LR0056, as modified under the provisions of Section I, Condition 1.3)
 - 1.7.2.1 Except as provided for below, emissions of CO shall not exceed 25 ppmvd at 15% O₂, on a 1-hour average, excluding startup, shutdown and combustion tuning/testing periods.
 - 1.7.2.2 During startup and shutdown, emissions of CO shall not exceed 1,000 ppmvd at 15% O₂, averaged over the startup and/or shutdown period.

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- 1.7.2.3 During periods of combustion tuning and testing, emissions of CO shall not exceed 1,000 ppmvd at 15% O₂, on a 1-hour average. Use of this CO emission limit for purposes of combustion tuning and testing shall not exceed 120 hours in any calendar year **turbines S601-3 combined**. Records of the number of hours each turbine undergoes combustion tuning and/or testing shall be recorded and maintained and made available to the Division upon request.
- 1.7.2.4 "Startup" shall have the same definition as in Condition 1.7.1.4.
- 1.7.2.5 "Shutdown" shall have the same definition as in Condition 1.7.1.5.
- 1.7.2.6 "Combustion Tuning and Testing" shall have the same definition as in Condition 1.7.1.6.

Compliance with the CO BACT limitations shall be monitored as follows:

- 1.7.2.7 Compliance with the CO BACT emission limitation in Condition 1.7.2.1 shall be monitored using the CEMS required by Condition 1.6. Except as provided for in Conditions 1.7.2.8 and 1.7.2.9, all the CEMS concentration (ppm) data points, shall at the end of each clock hour, be summarized to generate the average CO concentration. Each clock hour average CO concentration shall be compared to the limitation in Condition 1.7.2.1.
- 1.7.2.8 Compliance with the CO BACT emission limitation in Condition 1.7.2.2 shall be monitored using the CEMS required by Condition 1.6. All concentration (ppm) data points within the startup and/or shutdown period shall be averaged together to generate the average CO concentration for a given startup and/or shutdown period. The average CO concentration for each startup and shutdown period shall be compared to the limitation in Condition 1.7.2.2.
 - In the event that the startup ends within a clock hour or the shutdown begins within a clock hour, all non-startup and/or non-shutdown concentration (ppm) data points within that clock hour shall be averaged together to generate the average CO concentration and that average concentration shall be compared to the limitation in Condition 1.7.2.1.
- 1.7.2.9 Compliance with the CO BACT limitations in Condition 1.7.2.3 shall be monitored using the data generated by the CEMS and manually calculating hourly concentration averages during the combustion tuning and/or testing period. An average CO concentration shall be calculated using all concentration (ppm) data points generated by the CEMS during any actual hour during the combustion tuning and/or testing period and each hourly average shall be compared to the limitation in Condition 1.7.2.3.

For periods of combustion tuning and/or testing that last less than one hour, the average CO concentration shall be calculated using all concentration (ppm) data points within that combustion tuning and/or testing period.

In the event that combustion tuning and/or testing begins and/or ends within a clock hour, all non-combustion tuning and/or testing concentration (ppm) data

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points within that clock hour shall be averaged together to generate the average CO concentration and that average concentration shall be compared to the limitation in Condition 1.7.2.1.

Hours of combustion tuning and/or testing **for each turbine** (**S601-3**) shall be summed together to monitor compliance with the 120 hour limit.

- 1.7.3 Particulate Matter less than 10 micrometers (PM₁₀): Use of pipeline quality natural gas (as defined by Acid Rain Provisions, 40 CFR Part 75) and application of Good Combustion Control Practices. Emissions of particulate matter (including condensables) shall not exceed a rolling 12-month average of 0.021 pound per million BTU of heat input into the turbines, average based upon the duration of the applicable stack test method. In absence of credible evidence to the contrary, compliance with the emission limit is assumed when natural gas is used as fuel in the turbines, and when good combustion control practices are used. (Construction Permits 00LR0173, 01LR0056, 03LR0573, and 07LR0017, revised in accordance with Section I, Condition 1.3 of this permit)
- 1.8 **S605 only:** This unit is subject to the 40 CFR Part 60, Subpart KKKK Standards of Performance for Stationary Combustion Turbines, as adopted by reference in Colorado Regulation No. 6, Part A.
 - 1.8.1 Emissions of NO_X in the turbine exhaust shall not exceed 15 ppmvd at 15% O₂ **or** 0.43 lb/MWh of useful output (on a 4-hr rolling average) (§ 60.4320(a)). The source may chose to comply with either the concentration limit or the output-based limit. Compliance with the NO_X emission limits shall be monitored using the NO_X continuous emission monitoring system required by 40 CFR Part 60 Subpart KKKK §§ 60.4335(b) and 60.4345.
 - 1.8.2 Sulfur Dioxide (SO₂) emissions shall not exceed the following limitations:
 - 1.8.2.1 Emissions of SO₂ shall not exceed 0.90 lb/MWh gross output, or
 - 1.8.2.2 The turbines shall not burn any fuel which contains total potential sulfur emissions in excess of 0.060 lb SO₂/MMBtu heat input. (§ 60.4330(a)).
 - Compliance with the fuel sulfur content limit shall be presumed when burning pipeline quality natural gas. The methods specified in 40 CFR Part 60 Subpart KKKK § 60.4365 shall be used to demonstrate the natural gas meets the definition of pipeline quality natural gas.
 - 1.8.3 The facility must operate and maintain the turbines, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction (40 CFR Part 60 Subpart KKKK § 60.4333(a)).
 - 1.8.4 Continuous Emission Monitoring System Requirements

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- 1.8.4.1 The continuous emission monitoring system (CEMS) shall meet the requirements specified in Section II, Condition 2 of this permit in accordance with § 60.4345(e).
- 1.8.4.2 Data from the CEMS shall be used to identify excess emissions as specified in § 60.4350.
- 1.8.5 Submit reports of excess emissions and monitor downtime in accordance with 40 CFR Part 60 Subpart A, § 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown and malfunction (40 CFR Part 60 Subpart KKKK § 60.4375(a)).
 - 1.8.5.1 Excess emissions and monitor downtime for NO_X are defined in 40 CFR Part 60 Subpart KKKK § 60.4380(b).
 - 1.8.5.2 All reports required under § 60.7(c) must be postmarked by the 30th day following the end of each 6-month period. (40 CFR Part 60 Subpart KKKK § 60.4395).
- 1.9 The turbines are subject to Regulation No. 6, Part A, Subpart A, General Provisions including, but not limited to, the following:
 - 1.9.1 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (§60.11(d))
 - 1.9.2 No article, machine, equipment or process shall be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gasses discharged to the atmosphere. (§60.12)
 - 1.9.3 Records of startups, shutdowns, and malfunctions shall be maintained, as required under § 60.7.
 - 1.9.4 Written notification of continuous monitoring system demonstrations shall be submitted to the Division as required under § 60.7.
 - 1.9.5 Excess Emission and Monitoring System Performance Reports shall be submitted as required under § 60.7.
 - 1.9.6 Performance tests shall be conducted as required under § 60.8

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- 1.9.7 Continuous monitoring systems shall be maintained and operated as required under § 60.13
- 1.10 The following opacity limits apply to this facility:
 - 1.10.1 Except as provided for in Condition 1.10.2 and 1.10.3 below, no owner or operator of a source shall allow or cause the emission into the atmosphere of any air pollutant which is in excess of 20% opacity.
 - 1.10.2 No owner or operator of a source shall allow or cause to be emitted into the atmosphere any air pollutant resulting from the building of a new fire, cleaning of fire boxes, soot blowing, start-up, process modifications, or adjustment or occasional cleaning of control equipment which is in excess of 30% opacity for a period or periods aggregating more than six (6) minutes in any sixty (60) consecutive minutes (Colorado Regulation No. 1, Section II.A.4).
 - 1.10.3 [State-only] No owner or operator may discharge, or cause the discharge into the atmosphere of any particulate matter which is greater than 20% opacity (Colorado Regulation No. 6, Part B, Section II.C.3)

This opacity standard applies at all times except during periods of startup, shutdown and malfunction (40 CFR Part 60 Subpart A § 60.11(c), as adopted by reference in Colorado Regulation No. 6, Part B, Section I.A). In addition, the provisions of 40 CFR Part 60, Subpart A as set forth in Condition 1.11 of this permit apply. (Colorado Regulation No. 6, Part B, I.A)

- 1.10.4 In the absence of credible evidence to the contrary, compliance with the opacity limits in Conditions 1.10.1 through 3 is presumed whenever natural gas is used as fuel for the turbines.
- 1.11 These units are subject to the Title IV Acid Rain Requirements. As specified in 40 CFR Part 72.72(b)(1)(viii), the acid rain permit requirements shall be complete and segregable portion of the Operating Permit. As such the requirements are found in Section III of this permit.
- 1.12 **S604 and S605 only:** These units are subject to the requirements of 40 CFR Part 63, Subpart YYYY National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.

The source must comply with the Initial Notification requirements set forth in §63.6145 but need not comply with any other requirement of the rule until EPA takes final action to require compliance and publishes a document in the Federal Register. (§63.6095(d))

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2. Continuous Emission Monitoring Requirements

Note that the continuous emission monitoring requirements identified in this Condition, are in addition to the continuous emission monitoring requirements required by the Acid Rain Program, which are identified in Section III of this permit.

- 2.1 Each turbine shall be equipped with an in-line fuel flow meter that meets the requirements in 40 CFR Part 75 Appendix D to measure fuel combustion in each turbine. Fuel flow data shall be recorded on a data acquisition and handling system as specified in 40 CFR Part 75 Appendix D.
- 2.2 Equipment and QA/QC Requirements
 - 2.2.1 The Continuous Emission Monitoring Systems (CEMS) are subject to the following requirements:
 - 2.2.1.1 Except as provided for below, the **CO monitors are** subject to the applicable requirements of 40 CFR Part 60 (Colorado Construction Permits 00LR0183, 00LR0056, 03LR0573, and 07LR0017). Except where noted, the CO monitoring systems shall meet the equipment, installation and performance specifications of 40 CFR Part 60 Appendix B, Performance Specification 4/4A.
 - a. These CEMS are subject to the quality assurance/quality control requirements in 40 CFR Part 60 Appendix F and Subpart A § 60.13, except that cylinder gas audits (CGA) testing is not required during quarters with less than 168 hours of operating time in accordance with Condition 2.2.2.1 below.
 - b. The CO CEMS data shall meet the applicable "primary equipment hourly operating requirements" for hourly average calculation methodology specified in 40 CFR Part 75 Subpart B § 75.10(d).
 - c. When determining compliance with the CO startup and shutdown BACT limits (**S601**, **S602**, and **S603** only) in Condition 1.7.2.2 minute measurements (ppmvd at 15% O₂) calculated with diluent concentrations greater than 19.0 percent O₂ can be excluded from the startup of shutdown duration average value.
 - 2.2.1.2 The NO_x, O₂ diluent, and fuel flow monitors are subject to the applicable requirements of 40 CFR Part 75. The monitoring systems shall meet the equipment, installation and performance specification requirements in 40 CFR Part 75, Appendix A.
 - a. These CEMS shall meet the quality assurance/quality control requirements in 40 CFR Part 75, Appendix B and D, the conversion procedures of Appendix F and the traceability protocols of Appendix H.
 - b. When determining compliance with the NO_X startup and shutdown BACT limit in Condition 1.7.1.2 minute measurements (ppmvd at 15% O_2)

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calculated with diluent concentrations greater than 19.0 percent O_2 can be excluded from the startup of shutdown duration average value.

- 2.2.1.3 Relative Accuracy Test Audits (RATAs): RATAs shall be conducted in the units (e.g., ppm @ 15% O₂, lb/MMBtu) of the emission limitation for all of the emission limitations that are applicable to the emissions unit. The RATAs for emissions units that have annual emission limitations (tons/yr) will be conducted in terms of pounds per hour (lb/hr). The Reference Method lb/hr rate shall be calculated using the measured lb/MMBtu rates and CEMS provided fuel flow rates and fuel heat content value.
- 2.2.1.4 The DAHS shall be able to record and manipulate the data in the units (e.g., lb/MMBtu) of the emission limitation and meet the reporting requirements for all for the emissions limitations that are applicable to the emissions unit.
- 2.2.2 Quality assurance/quality control plans shall be prepared for the continuous emission monitoring systems as follows:
 - 2.2.2.1 The quality assurance/quality control plan for the **CO monitors** shall be prepared in accordance with the applicable requirements in 40 CFR Part 60, Appendix F, except that GCA testing is not required during quarters with less than 168 hour of operating time and will be performed according to the linearity testing frequency requirements in 40 CFR Part 75, Appendix B for a primary monitor. The RA testing frequency will be every four operating quarters according to RA testing frequency requirements in 40 CFR Part 75, Appendix B for a primary monitor.
 - 2.2.2.2 The quality assurance/quality control plan for the **NO**_X (and diluent) monitors shall be prepared in accordance with the applicable requirements in 40 CFR Part 75, Appendix B. The QA/QC testing frequency for the NO_X and diluents O₂ monitor will be in accordance with 40 CFR Part 75, Appendix B.

The quality assurance/quality control plans shall be made available to the Division upon request. Revisions shall be made to the plans at the request of the Division.

2.3 General Provisions

- 2.3.1 **CO monitors:** The permittee shall ensure that all continuous emission monitoring systems required are in operation and monitoring unit emissions at all times except for monitoring system breakdowns, repairs, calibration checks and zero and span adjustments required under 40 CFR Part 60 Subpart A § 60.13(d) (40 CFR Part 60 Subpart A § 60.13(e)).
- 2.3.2 **NO**_X (and diluent) monitors: The permittee shall ensure that all continuous emission monitoring systems required are in operation and monitoring unit emissions at all times that the affected unit combusts any fuel except as provided in 40 CFR § 75.11(e) and during periods of calibration, quality assurance, or preventative maintenance performed pursuant to 40 CFR Part 75, § 75.21 and Appendix B, periods of repair, periods of

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- backups of data from the data acquisition and handling system or recertification performed pursuant to 40 CFR § 75.20 (40 CFR Part 75 § 75.10(d)).
- 2.3.3 Alternative monitoring systems, alternative reference methods, or any other alternatives for the required continuous emission monitoring systems shall not be used without having obtained prior written approval from the appropriate agency, either the Division or the U.S. EPA, depending on which agency is authorized to approve such alternative under applicable law. Any alternative continuous emission monitoring systems must be certified in accordance with the applicable requirements of 40 CFR Part 60 or 40 CFR Part 75 prior to use.
- 2.3.4 All test and monitoring equipment, methods, procedures and reporting shall be subject to the review and approval by the appropriate agency, either the Division or the U. S. EPA, depending on which agency is authorized to approve such item under applicable law, prior to any official use. The Division shall have the right to inspect such equipment, methods and procedures and data obtained at any time. The Division may provide a witness(s) for any and all tests as Division resources permit.
- 2.3.5 A file suitable for inspection shall be maintained of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60 Subpart A and Appendices B and F and 40 CFR Part 75.
- 2.3.6 Records shall be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR Part 60 Subpart A § 60.7(b)).
- 2.4 For periods when quality assured data is not available from the continuous emission monitoring systems the data replacement procedures in 40 CFR Part 75 Subpart D shall be used for determining the total (annual tons/year) emissions. Although CO emissions are not specifically referenced in the Subpart D procedures, the CEMS data acquisition system is programmed to substitute CO emissions using the same procedures specified for NO_X.
 - Note that the replaced data shall be used to monitor compliance with the NO_X and CO annual tons/year emission limitations.
- 2.5 Recordkeeping and Reporting Requirements
 - 2.5.1 The owner or operator of a facility required to install, maintain, and calibrate continuous monitoring equipment shall submit to the Division, by the end of the calendar month following the end of each calendar quarter, a report of excess emissions for all pollutants monitored for that quarter (40 CFR Part 60 Subpart A § 60.7(c)). This report shall

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consist of the following information and/or reporting requirements as specified by the Division:

- 2.5.1.1 The magnitude of excess emissions computed in accordance with 40 CFR Part 60 Subpart A § 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions and the process operating time during the reporting period (40 CFR Part 60 Subpart A § 60.7(c)(1)).
- 2.5.1.2 Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted (40 CFR Part 60 Subpart A § 60.7(c)(2)).
- 2.5.1.3 The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments (40 CFR Part 60 Subpart A § 60.7(c)(3)).
- 2.5.1.4 When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report (40 CFR Part 60 Subpart A § 60.7(c)(4)).
- 2.5.2 The owner or operator of a facility required to install, maintain, and calibrate continuous monitoring equipment shall submit to the Division, by the end of the month following the end of each calendar quarter, a summary report for that quarter (40 CFR Part 60 Subpart A § 60.7(c)). One summary report form shall be submitted for each pollutant monitored. This report shall contain the information and be presented in a format approved by the Division.

If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and continuous monitoring system (CMS) downtime is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in Condition 2.5.1 need not be submitted unless required by the Division (40 CFR Part 60 Subpart A § 60.7(d)(1)).

If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in Condition 2.5.1 shall both be submitted (40 CFR Part 60 Subpart A § 60.7(d)(1)).

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SECTION III - Acid Rain Requirements

1. Designated Representative and Alternate Designated Representative

Designated Representative: Alternate Designated Representative:

Name: Jason Frisbie Name: Paul Schulz

Title: Division Manager, Title: Environmental Analyst

Power Production Generation

Phone: (970) 229-1705 Phone: (970) 229-1762

2. Sulfur Dioxide Emission Allowances and Nitrogen Oxide Emission Limitations

| Combustion Turbine Unit A | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|------|------|------|------|------|
| SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2 | 0* | 0* | 0* | 0* | 0* | 0* |
| NO _X Limits | This Unit Has No NO _X Limits (See Section 5) | | | | | |

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

| Combustion Turbine Unit B | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|------|------|------|------|------|
| SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2 | 0* | 0* | 0* | 0* | 0* | 0* |
| NO _X Limits | This Unit Has No NO _X Limits (See Section 5) | | | | | |

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

| Combustion Turbine Unit C | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|------|------|------|------|------|
| SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2 | 0* | 0* | 0* | 0* | 0* | 0* |
| NO _X Limits | This Unit Has No NO _X Limits (See Section 5) | | | | | |

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

| Combustion Turbine Unit D | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|------|------|------|------|------|
| SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2 | 0* | 0* | 0* | 0* | 0* | 0* |
| NO _X Limits | This Unit Has No Acid Rain Program NO _X Limits (See Section 5) | | | | | |

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^{*} Under the provisions of §72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

| Combustion Turbine Unit F | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|-----------------|------------------|-----------------------------|-----------------|------|
| SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2 | 0* | 0* | 0* | 0* | 0* | 0* |
| NO _X Limits | | This Unit Has N | lo Acid Rain Pro | gram NO _X Limits | (See Section 5) | _ |

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

3. Standard Requirements

Units A, B, C, D, and F (combustion turbines) of this facility are subject to and the source has certified that they will comply with the following standard conditions.

Permit Requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - ii) Submit in a timely manner any supplemental information that the Division determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the Division; and
 - ii) Have an Acid Rain Permit.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Federal Clean Air Act and other provisions of the operating permit for the source.

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Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each affected unit at the source shall:
 - Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Federal Clean Air Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7, 72.8 or 72.14 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

<u>Nitrogen Oxides Requirements</u>. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan to the Administrator of the U. S. EPA, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - i) Pay without demand, to the Administrator of the U. S. EPA, the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the

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document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or the Division:

- i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
- ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
- iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
- iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7, 72.8 or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Federal Clean Air Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Federal Clean Air Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_X averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by

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- any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Federal Clean Air Act.

<u>Effect on Other Authorities</u>. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7, 72.8 or 72.14 shall be construed as:

- (1) Except as expressly provided in title IV of the Federal Clean Air Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Federal Clean Air Act, including the provisions of title I of the Federal Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Federal Clean Air Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

4. Reporting Requirements

Reports shall be submitted to the addresses identified in Appendix D.

Pursuant to 40 CFR Part 75.64 quarterly reports and compliance certification requirements shall be submitted to the Administrator within 30 days after the end of the calendar quarter. The contents of these reports shall meet the requirements of 40 CFR 75.64.

Pursuant to 40 CFR Part 72.90 (as adopted by reference in Colorado Regulation 18) annual reports and compliance certifications shall be submitted to the Administrator within 60 days after the end of the calendar year. The contents of these reports shall meet the requirements of 40 CFR 72.90. A copy of the compliance certification shall also be submitted to the Division.

Revisions to this permit shall be made in accordance with 40 CFR Part 72, Subpart H, §§ 72.80 through 72.85 (as adopted by reference in Colorado Regulation 18). Permit modification requests shall be submitted to the Division at the address identified in Appendix D.

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5. Comments, Notes and Justifications

Units A, B, C, D and F (combustion turbines) burn only natural gas as fuel. The NO_X limitations in 40 CFR Part 76 are only applicable to coal-fired utility units and thus do not apply to these units.

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SECTION IV - Permit Shield

Regulation No. 3, 5 CCR 1001-5, Part C, §§ I.A.4, V.D. & XIII.B; § 25-7-114.4(3)(a), C.R.S.

1. Specific Non-Applicable Requirements

Based on the information available to the Division and supplied by the applicant, the following parameters and requirements have been specifically identified as non-applicable to the facility to which this permit has been issued. This shield does not protect the source from any violations that occurred prior to or at the time of permit issuance. In addition, this shield does not protect the source from any violations that occur as a result of any modifications or reconstruction on which construction commenced prior to permit issuance.

| Emission Unit Description & Number | Applicable Requirement | Justification |
|------------------------------------|--|--|
| S601, S602, S603, S604 | 40 CFR Part 60, Subpart Da, as adopted by reference in Colorado Regulation No. 6, Part A | Units are not "steam generators" as defined in Subpart Da. |
| S601, S602, S603, S604 | 40 CFR Part 64, as adopted by reference in Colorado Regulation No. 3, Part C | Add-on control equipment is not used, therefore CAM provisions do not apply. |
| S601, S602, S603 | 40 CFR Part 63, Subpart YYYY | These Units are "existing" units as defined in Subpart YYYY. |
| S601, S602, S603, S604 | 40 CFR Part 60, Subpart KKKK | These Units commenced construction prior to February 18, 2005. |

2. General Conditions

Compliance with this Operating Permit shall be deemed compliance with all applicable requirements specifically identified in the permit and other requirements specifically identified in the permit as not applicable to the source. This permit shield shall not alter or affect the following:

- 2.1 The provisions of §§ 25-7-112 and 25-7-113, C.R.S., or § 303 of the federal act, concerning enforcement in cases of emergency;
- 2.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- 2.3 The applicable requirements of the federal Acid Rain Program, consistent with § 408(a) of the federal act;
- 2.4 The ability of the Air Pollution Control Division to obtain information from a source pursuant to § 25-7-111(2)(I), C.R.S., or the ability of the Administrator to obtain information pursuant to § 114 of the federal act:

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- 2.5 The ability of the Air Pollution Control Division to reopen the Operating Permit for cause pursuant to Regulation No. 3, Part C, § XIII.
- 2.6 Sources are not shielded from terms and conditions that become applicable to the source subsequent to permit issuance.

3. Streamlined Conditions

The following applicable requirements have been subsumed within this operating permit using the pertinent streamlining procedures approved by the U.S. EPA. For purposes of the permit shield, compliance with the listed permit conditions will also serve as a compliance demonstration for purposes of the associated subsumed requirements.

| Permit Condition | Streamlined (Subsumed) Requirements |
|--|--|
| Section II, Condition 1.4.1 | Regulation No. 6, Part B, Section II.D.3.b [SO ₂ emissions not to exceed 0.35 lbs/mmBtu] - State-only Requirement |
| Section II, Conditions 2.1 and 2.2 | Colorado Construction Permits 00LR0173 and 01LR0056, Conditions 12 and 11 [continuous emission monitoring system QA/QC requirements only] for the NO _x and diluent continuous emission monitoring systems only. |

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SECTION V - General Permit Conditions (ver 5/22/2012)

1. Administrative Changes

Regulation No. 3, 5 CCR 1001-5, Part A, § III.

The permittee shall submit an application for an administrative permit amendment to the Division for those permit changes that are described in Regulation No. 3, Part A, § I.B.1. The permittee may immediately make the change upon submission of the application to the Division.

2. Certification Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.B.9., V.C.16.a.& e. and V.C.17.

- a. Any application, report, document and compliance certification submitted to the Air Pollution Control Division pursuant to Regulation No. 3 or the Operating Permit shall contain a certification by a responsible official of the truth, accuracy and completeness of such form, report or certification stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- b. All compliance certifications for terms and conditions in the Operating Permit shall be submitted to the Air Pollution Control Division at least annually unless a more frequent period is specified in the applicable requirement or by the Division in the Operating Permit.
- c. Compliance certifications shall contain:
 - (i) the identification of each permit term and condition that is the basis of the certification;
 - (ii) the compliance status of the source;
 - (iii) whether compliance was continuous or intermittent;
 - (iv) method(s) used for determining the compliance status of the source, currently and over the reporting period; and
 - (v) such other facts as the Air Pollution Control Division may require to determine the compliance status of the
- d. All compliance certifications shall be submitted to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit.
- e. If the permittee is required to develop and register a risk management plan pursuant to § 112(r) of the federal act, the permittee shall certify its compliance with that requirement; the Operating Permit shall not incorporate the contents of the risk management plan as a permit term or condition.

3. Common Provisions

Common Provisions Regulation, 5 CCR 1001-2 §§ II.A., II.B., II.C., II.E., II.F., II.I, and II.J

a. To Control Emissions Leaving Colorado

When emissions generated from sources in Colorado cross the State boundary line, such emissions shall not cause the air quality standards of the receiving State to be exceeded, provided reciprocal action is taken by the receiving State.

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b. Emission Monitoring Requirements

The Division may require owners or operators of stationary air pollution sources to install, maintain, and use instrumentation to monitor and record emission data as a basis for periodic reports to the Division.

c. Performance Testing

The owner or operator of any air pollution source shall, upon request of the Division, conduct performance test(s) and furnish the Division a written report of the results of such test(s) in order to determine compliance with applicable emission control regulations.

Performance test(s) shall be conducted and the data reduced in accordance with the applicable reference test methods unless the Division:

- (i) specifies or approves, in specific cases, the use of a test method with minor changes in methodology;
- (ii) approves the use of an equivalent method;
- (iii) approves the use of an alternative method the results of which the Division has determined to be adequate for indicating where a specific source is in compliance; or
- (iv) waives the requirement for performance test(s) because the owner or operator of a source has demonstrated by other means to the Division's satisfaction that the affected facility is in compliance with the standard. Nothing in this paragraph shall be construed to abrogate the Commission's or Division's authority to require testing under the Colorado Revised Statutes, Title 25, Article 7, and pursuant to regulations promulgated by the Commission.

Compliance test(s) shall be conducted under such conditions as the Division shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Division such records as may be necessary to determine the conditions of the performance test(s). Operations during period of startup, shutdown, and malfunction shall not constitute representative conditions of performance test(s) unless otherwise specified in the applicable standard.

The owner or operator of an affected facility shall provide the Division thirty days prior notice of the performance test to afford the Division the opportunity to have an observer present. The Division may waive the thirty day notice requirement provided that arrangements satisfactory to the Division are made for earlier testing.

The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

- (i) Sampling ports adequate for test methods applicable to such facility;
- (ii) Safe sampling platform(s);
- (iii) Safe access to sampling platform(s); and
- (iv) Utilities for sampling and testing equipment.

Each performance test shall consist of at least three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of results of at least three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the owner or operator's control, compliance may, upon the Division's approval, be determined using the arithmetic mean of the results of the two other runs.

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Nothing in this section shall abrogate the Division's authority to conduct its own performance test(s) if so warranted.

d. Affirmative Defense Provision for Excess Emissions during Malfunctions

An affirmative defense to a claim of violation under these regulations is provided to owners and operators for civil penalty actions for excess emissions during periods of malfunction. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of evidence that:

- (i) The excess emissions were caused by a sudden, unavoidable breakdown of equipment, or a sudden, unavoidable failure of a process to operate in the normal or usual manner, beyond the reasonable control of the owner or operator;
- (ii) The excess emissions did not stem from any activity or event that could have reasonably been foreseen and avoided, or planned for, and could not have been avoided by better operation and maintenance practices;
- (iii) Repairs were made as expeditiously as possible when the applicable emission limitations were being exceeded:
- (iv) The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions;
- (v) All reasonably possible steps were taken to minimize the impact of the excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence;
- (viii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance:
- (ix) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This section is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement; and
- (x) During the period of excess emissions, there were no exceedances of the relevant ambient air quality standards established in the Commissions' Regulations that could be attributed to the emitting source.

The owner or operator of the facility experiencing excess emissions during a malfunction shall notify the division verbally as soon as possible, but no later than noon of the Division's next working day, and shall submit written notification following the initial occurrence of the excess emissions by the end of the source's next reporting period. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

The Affirmative Defense Provision does not apply to failures to meet federally promulgated performance standards or emission limits, including, but not limited to, new source performance standards and national emission standards for hazardous air pollutants. The affirmative defense provision does not apply to state implementation plan (sip) limits or permit limits that have been set taking into account potential emissions during malfunctions, including, but not necessarily limited to, certain limits with 30-day or longer averaging times, limits that indicate they apply during malfunctions, and limits that indicate they apply at all times or without exception.

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e. Circumvention Clause

A person shall not build, erect, install, or use any article, machine, equipment, condition, or any contrivance, the use of which, without resulting in a reduction in the total release of air pollutants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of this regulation. No person shall circumvent this regulation by using more openings than is considered normal practice by the industry or activity in question.

f. Compliance Certifications

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in the Colorado State Implementation Plan, nothing in the Colorado State Implementation Plan shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. Evidence that has the effect of making any relevant standard or permit term more stringent shall not be credible for proving a violation of the standard or permit term.

When compliance or non-compliance is demonstrated by a test or procedure provided by permit or other applicable requirement, the owner or operator shall be presumed to be in compliance or non-compliance unless other relevant credible evidence overcomes that presumption.

g. Affirmative Defense Provision for Excess Emissions During Startup and Shutdown

An affirmative defense is provided to owners and operators for civil penalty actions for excess emissions during periods of startup and shutdown. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of the evidence that:

- (i) The periods of excess emissions that occurred during startup and shutdown were short and infrequent and could not have been prevented through careful planning and design;
- (ii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation or maintenance:
- (iii) If the excess emissions were caused by a bypass (an intentional diversion of control equipment), then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (iv) The frequency and duration of operation in startup and shutdown periods were minimized to the maximum extent practicable;
- (v) All possible steps were taken to minimize the impact of excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence; and,
- (viii) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This subparagraph is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement.

The owner or operator of the facility experiencing excess emissions during startup and shutdown shall notify the Division verbally as soon as possible, but no later than two (2) hours after the start of the next working day, and shall submit written quarterly notification following the initial occurrence of the excess emissions. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

Operating Permit Number: 03OPLR261 First Issued: October 1, 2004 Renewed: January 1, 2013 The Affirmative Defense Provision does not apply to State Implementation Plan provisions or other requirements that derive from new source performance standards or national emissions standards for hazardous air pollutants, or any other federally enforceable performance standard or emission limit with an averaging time greater than twenty-four hours. In addition, an affirmative defense cannot be used by a single source or small group of sources where the excess emissions have the potential to cause an exceedance of the ambient air quality standards or Prevention of Significant Deterioration (PSD) increments.

In making any determination whether a source established an affirmative defense, the Division shall consider the information within the notification required above and any other information the Division deems necessary, which may include, but is not limited to, physical inspection of the facility and review of documentation pertaining to the maintenance and operation of process and air pollution control equipment.

4. Compliance Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.C.9., V.C.11. & 16.d. and § 25-7-122.1(2), C.R.S.

- a. The permittee must comply with all conditions of the Operating Permit. Any permit noncompliance relating to federally-enforceable terms or conditions constitutes a violation of the federal act, as well as the state act and Regulation No. 3. Any permit noncompliance relating to state-only terms or conditions constitutes a violation of the state act and Regulation No. 3, shall be enforceable pursuant to state law, and shall not be enforceable by citizens under § 304 of the federal act. Any such violation of the federal act, the state act or regulations implementing either statute is grounds for enforcement action, for permit termination, revocation and reissuance or modification or for denial of a permit renewal application.
- b. It shall not be a defense for a permittee in an enforcement action or a consideration in favor of a permittee in a permit termination, revocation or modification action or action denying a permit renewal application that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- c. The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or any notification of planned changes or anticipated noncompliance does not stay any permit condition, except as provided in §§ X. and XI. of Regulation No. 3, Part C.
- d. The permittee shall furnish to the Air Pollution Control Division, within a reasonable time as specified by the Division, any information that the Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Division copies of records required to be kept by the permittee, including information claimed to be confidential. Any information subject to a claim of confidentiality shall be specifically identified and submitted separately from information not subject to the claim.
- e. Any schedule for compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental, and shall not sanction noncompliance with, the applicable requirements on which it is based.
- f. For any compliance schedule for applicable requirements with which the source is not in compliance at the time of permit issuance, the permittee shall submit, at least every 6 months unless a more frequent period is specified in the applicable requirement or by the Air Pollution Control Division, progress reports which contain the following:
 - (i) dates for achieving the activities, milestones, or compliance required in the schedule for compliance, and dates when such activities, milestones, or compliance were achieved; and
 - (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

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g. The permittee shall not knowingly falsify, tamper with, or render inaccurate any monitoring device or method required to be maintained or followed under the terms and conditions of the Operating Permit.

5. Emergency Provisions

Regulation No. 3, 5 CCR 1001-5, Part C, § VII.E

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed the technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. "Emergency" does not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. An emergency constitutes an affirmative defense to an enforcement action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. the permitted facility was at the time being properly operated;
- c. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. the permittee submitted oral notice of the emergency to the Air Pollution Control Division no later than noon of the next working day following the emergency, and followed by written notice within one month of the time when emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

This emergency provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

6. Emission Controls for Asbestos

Regulation No. 8, 5 CCR 1001-10, Part B

The permittee shall not conduct any asbestos abatement activities except in accordance with the provisions of Regulation No. 8, Part B, "asbestos control."

7. Emissions Trading, Marketable Permits, Economic Incentives

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.13.

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are specifically provided for in the permit.

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8. Fee Payment

C.R.S §§ 25-7-114.1(6) and 25-7-114.7

- a. The permittee shall pay an annual emissions fee in accordance with the provisions of C.R.S. § 25-7-114.7. A 1% per month late payment fee shall be assessed against any invoice amounts not paid in full on the 91st day after the date of invoice, unless a permittee has filed a timely protest to the invoice amount.
- b. The permittee shall pay a permit processing fee in accordance with the provisions of C.R.S. § 25-7-114.7. If the Division estimates that processing of the permit will take more than 30 hours, it will notify the permittee of its estimate of what the actual charges may be prior to commencing any work exceeding the 30 hour limit.
- c. The permittee shall pay an APEN fee in accordance with the provisions of C.R.S. § 25-7-114.1(6) for each APEN or revised APEN filed.

9. Fugitive Particulate Emissions

Regulation No. 1, 5 CCR 1001-3, § III.D.1.

The permittee shall employ such control measures and operating procedures as are necessary to minimize fugitive particulate emissions into the atmosphere, in accordance with the provisions of Regulation No. 1, § III.D.1.

10. Inspection and Entry

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.16.b.

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Air Pollution Control Division, or any authorized representative, to perform the following:

- a. enter upon the permittee's premises where an Operating Permit source is located, or emissions-related activity is conducted, or where records must be kept under the terms of the permit;
- b. have access to, and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the Operating Permit;
- d. sample or monitor at reasonable times, for the purposes of assuring compliance with the Operating Permit or applicable requirements, any substances or parameters.

11. Minor Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, §§ X. & XI.

The permittee shall submit an application for a minor permit modification before making the change requested in the application. The permit shield shall not extend to minor permit modifications.

12. New Source Review

Regulation No. 3, 5 CCR 1001-5, Part B

The permittee shall not commence construction or modification of a source required to be reviewed under the New Source Review provisions of Regulation No. 3, Part B, without first receiving a construction permit.

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13. No Property Rights Conveyed

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.11.d.

This permit does not convey any property rights of any sort, or any exclusive privilege.

14. Odor

Regulation No. 2, 5 CCR 1001-4, Part A

As a matter of state law only, the permittee shall comply with the provisions of Regulation No. 2 concerning odorous emissions.

15. Off-Permit Changes to the Source

Regulation No. 3, 5 CCR 1001-5, Part C, § XII.B.

The permittee shall record any off-permit change to the source that causes the emissions of a regulated pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from the change, including any other data necessary to show compliance with applicable ambient air quality standards. The permittee shall provide contemporaneous notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permit shield shall not apply to any off-permit change.

16. Opacity

Regulation No. 1, 5 CCR 1001-3, §§ I., II.

The permittee shall comply with the opacity emissions limitation set forth in Regulation No. 1, §§ I.- II.

17. Open Burning

Regulation No. 9, 5 CCR 1001-11

The permittee shall obtain a permit from the Division for any regulated open burning activities in accordance with provisions of Regulation No. 9.

18. Ozone Depleting Compounds

Regulation No. 15, 5 CCR 1001-17

The permittee shall comply with the provisions of Regulation No. 15 concerning emissions of ozone depleting compounds. Sections I., II.C., II.D., III. IV., and V. of Regulation No. 15 shall be enforced as a matter of state law only.

19. Permit Expiration and Renewal

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.B.6., IV.C., V.C.2.

- a. The permit term shall be five (5) years. The permit shall expire at the end of its term. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted.
- b. Applications for renewal shall be submitted at least twelve months, but not more than 18 months, prior to the expiration of the Operating Permit. An application for permit renewal may address only those portions of the permit that require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. A copy of any materials incorporated by reference must be included with the application.

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20. Portable Sources

Regulation No. 3, 5 CCR 1001-5, Part C, § II.D.

Portable Source permittees shall notify the Air Pollution Control Division at least 10 days in advance of each change in location.

21. Prompt Deviation Reporting

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.7.b.

The permittee shall promptly report any deviation from permit requirements, including those attributable to malfunction conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

"Prompt" is defined as follows:

- a. Any definition of "prompt" or a specific timeframe for reporting deviations provided in an underlying applicable requirement as identified in this permit; or
- b. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations will be submitted based on the following schedule:
 - (i) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in the applicable regulation) that continue for more than an hour in excess of permit requirements, the report shall be made within 24 hours of the occurrence;
 - (ii) For emissions of any regulated air pollutant, excluding a hazardous air pollutant or a toxic air pollutant that continue for more than two hours in excess of permit requirements, the report shall be made within 48 hours; and
 - (iii) For all other deviations from permit requirements, the report shall be submitted every six (6) months, except as otherwise specified by the Division in the permit in accordance with paragraph 22.d. below.
- c. If any of the conditions in paragraphs b.i or b.ii above are met, the source shall notify the Division by telephone (303-692-3155) or facsimile (303-782-0278) based on the timetables listed above. [Explanatory note: Notification by telephone or facsimile must specify that this notification is a deviation report for an Operating Permit.] A written notice, certified consistent with General Condition 2.a. above (Certification Requirements), shall be submitted within 10 working days of the occurrence. All deviations reported under this section shall also be identified in the 6-month report required above.

"Prompt reporting" does not constitute an exception to the requirements of "Emergency Provisions" for the purpose of avoiding enforcement actions.

22. Record Keeping and Reporting Requirements

Regulation No. 3, 5 CCR 1001-5, Part A, § II.; Part C, §§ V.C.6., V.C.7.

- a. Unless otherwise provided in the source specific conditions of this Operating Permit, the permittee shall maintain compliance monitoring records that include the following information:
 - (i) date, place as defined in the Operating Permit, and time of sampling or measurements;
 - (ii) date(s) on which analyses were performed;

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- (iii) the company or entity that performed the analysis;
- (iv) the analytical techniques or methods used;
- (v) the results of such analysis; and
- (vi) the operating conditions at the time of sampling or measurement.
- b. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report or application. Support information, for this purpose, includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit. With prior approval of the Air Pollution Control Division, the permittee may maintain any of the above records in a computerized form.
- c. Permittees must retain records of all required monitoring data and support information for the most recent twelve (12) month period, as well as compliance certifications for the past five (5) years on-site at all times. A permittee shall make available for the Air Pollution Control Division's review all other records of required monitoring data and support information required to be retained by the permittee upon 48 hours advance notice by the Division.
- d. The permittee shall submit to the Air Pollution Control Division all reports of any required monitoring at least every six (6) months, unless an applicable requirement, the compliance assurance monitoring rule, or the Division requires submission on a more frequent basis. All instances of deviations from any permit requirements must be clearly identified in such reports.
- e. The permittee shall file an Air Pollutant Emissions Notice ("APEN") prior to constructing, modifying, or altering any facility, process, activity which constitutes a stationary source from which air pollutants are or are to be emitted, unless such source is exempt from the APEN filing requirements of Regulation No. 3, Part A, § II.D. A revised APEN shall be filed annually whenever a significant change in emissions, as defined in Regulation No. 3, Part A, § II.C.2., occurs; whenever there is a change in owner or operator of any facility, process, or activity; whenever new control equipment is installed; whenever a different type of control equipment replaces an existing type of control equipment; whenever a permit limitation must be modified; or before the APEN expires. An APEN is valid for a period of five years. The five-year period recommences when a revised APEN is received by the Air Pollution Control Division. Revised APENs shall be submitted no later than 30 days before the five-year term expires. Permittees submitting revised APENs to inform the Division of a change in actual emission rates must do so by April 30 of the following year. Where a permit revision is required, the revised APEN must be filed along with a request for permit revision. APENs for changes in control equipment must be submitted before the change occurs. Annual fees are based on the most recent APEN on file with the Division.

23. Reopenings for Cause

Regulation No. 3, 5 CCR 1001-5, Part C, § XIII.

- a. The Air Pollution Control Division shall reopen, revise, and reissue Operating Permits; permit reopenings and reissuance shall be processed using the procedures set forth in Regulation No. 3, Part C, § III., except that proceedings to reopen and reissue permits affect only those parts of the permit for which cause to reopen exists.
- b. The Division shall reopen a permit whenever additional applicable requirements become applicable to a major source with a remaining permit term of three or more years, unless the effective date of the requirements is later than the date on which the permit expires, or unless a general permit is obtained to address the new requirements; whenever additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program; whenever the Division determines the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or whenever the Division determines that the permit must be revised or revoked to assure compliance with an applicable requirement.

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- c. The Division shall provide 30 days' advance notice to the permittee of its intent to reopen the permit, except that a shorter notice may be provided in the case of an emergency.
- d. The permit shield shall extend to those parts of the permit that have been changed pursuant to the reopening and reissuance procedure.

24. Section 502(b)(10) Changes

Regulation No. 3, 5 CCR 1001-5, Part C, § XII.A.

The permittee shall provide a minimum 7-day advance notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permittee shall attach a copy of each such notice given to its Operating Permit.

25. Severability Clause

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.10.

In the event of a challenge to any portion of the permit, all emissions limits, specific and general conditions, monitoring, record keeping and reporting requirements of the permit, except those being challenged, remain valid and enforceable.

26. Significant Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, § III.B.2.

The permittee shall not make a significant modification required to be reviewed under Regulation No. 3, Part B ("Construction Permit" requirements) without first receiving a construction permit. The permittee shall submit a complete Operating Permit application or application for an Operating Permit revision for any new or modified source within twelve months of commencing operation, to the address listed in Item 1 in Appendix D of this permit. If the permittee chooses to use the "Combined Construction/Operating Permit" application procedures of Regulation No. 3, Part C, then the Operating Permit must be received prior to commencing construction of the new or modified source.

27. Special Provisions Concerning the Acid Rain Program

Regulation No. 3, 5 CCR 1001-5, Part C, §§ V.C.1.b. & 8

- a. Where an applicable requirement of the federal act is more stringent than an applicable requirement of regulations promulgated under Title IV of the federal act, 40 Code of Federal Regulations (CFR) Part 72, both provisions shall be incorporated into the permit and shall be federally enforceable.
- b. Emissions exceeding any allowances that the source lawfully holds under Title IV of the federal act or the regulations promulgated thereunder, 40 CFR Part 72, are expressly prohibited.

28. Transfer or Assignment of Ownership

Regulation No. 3, 5 CCR 1001-5, Part C, § II.C.

No transfer or assignment of ownership of the Operating Permit source will be effective unless the prospective owner or operator applies to the Air Pollution Control Division on Division-supplied Administrative Permit Amendment forms, for reissuance of the existing Operating Permit. No administrative permit shall be complete until a written agreement containing a specific date for transfer of permit, responsibility, coverage, and liability between the permittee and the prospective owner or operator has been submitted to the Division.

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29. Volatile Organic Compounds

Regulation No. 7, 5 CCR 1001-9, §§ III & V.

The requirements in paragraphs a, b and e apply to sources located in an ozone non-attainment area or the Denver 1-hour ozone attainment/maintenance area. The requirements in paragraphs c and d apply statewide.

- a. All storage tank gauging devices, anti-rotation devices, accesses, seals, hatches, roof drainage systems, support structures, and pressure relief valves shall be maintained and operated to prevent detectable vapor loss except when opened, actuated, or used for necessary and proper activities (e.g. maintenance). Such opening, actuation, or use shall be limited so as to minimize vapor loss.
 - Detectable vapor loss shall be determined visually, by touch, by presence of odor, or using a portable hydrocarbon analyzer. When an analyzer is used, detectable vapor loss means a VOC concentration exceeding 10,000 ppm. Testing shall be conducted as in Regulation No. 7, Section VIII.C.3.
- b. Except when otherwise provided by Regulation No. 7, all volatile organic compounds, excluding petroleum liquids, transferred to any tank, container, or vehicle compartment with a capacity exceeding 212 liters (56 gallons), shall be transferred using submerged or bottom filling equipment. For top loading, the fill tube shall reach within six inches of the bottom of the tank compartment. For bottom-fill operations, the inlet shall be flush with the tank bottom.
- c. The permittee shall not dispose of volatile organic compounds by evaporation or spillage unless Reasonably Available Control Technology (RACT) is utilized.
- d. No owner or operator of a bulk gasoline terminal, bulk gasoline plant, or gasoline dispensing facility as defined in Colorado Regulation No. 7, Section VI, shall permit gasoline to be intentionally spilled, discarded in sewers, stored in open containers, or disposed of in any other manner that would result in evaporation.
- e. Beer production and associated beer container storage and transfer operations involving volatile organic compounds with a true vapor pressure of less than 1.5 PSIA actual conditions are exempt from the provisions of paragraph b, above.

30. Wood Stoves and Wood burning Appliances

Regulation No. 4, 5 CCR 1001-6

The permittee shall comply with the provisions of Regulation No. 4 concerning the advertisement, sale, installation, and use of wood stoves and wood burning appliances.

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OPERATING PERMIT APPENDICES

- A INSPECTION INFORMATION
- **B MONITORING AND PERMIT DEVIATION REPORT**
- C COMPLIANCE CERTIFICATION REPORT
- **D-NOTIFICATION ADDRESSES**
- **E PERMIT ACRONYMS**
- F PERMIT MODIFICATIONS

*DISCLAIMER:

None of the information found in these Appendices shall be considered to be State or Federally enforceable, except as otherwise provided in the permit, and is presented to assist the source, permitting authority, inspectors, and citizens.

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APPENDIX A - Inspection Information

Directions to Plant

The facility is located at 2700 East County Road 82, north of Wellington, CO.

Safety Equipment Required

Eye Protection, Hard Hat, Safety Shoes, Hearing Protection, and Gloves

Facility Plot Plan

Figure 1 (following page) shows the plot plan as submitted on September 26, 2008 with the source's Title V Operating Permit Renewal Application.

List of Insignificant Activities

The following list of insignificant activities was provided by the source. Since there is no requirement to update such a list, activities may have changed since the last filing.

Air pollution emission units, operations or activities with emissions less than the appropriate de minimis reporting level.

Specific Insignificant activities and/or sources of emissions associated with Units A, B, and C as identified in the application (see 96OPLR142 for additional insignificant activities at the site):

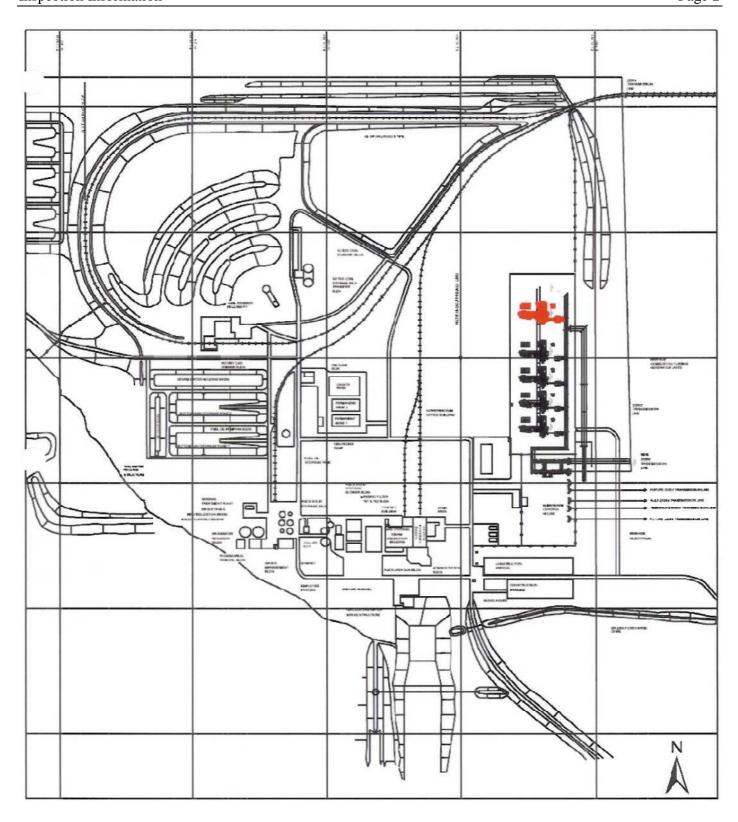
Two (2) Hanover Model 923201 Indirect Natural Gas Heaters, Serial Numbers 3724 and 3725, with firebox ratings of 7.2 mmBtu/hour.

Venting of natural gas and leaks (< de minimis)

Natural gas fired inline gas heaters for combustion turbines (< de minimis)

Fuel burning equipment less than 5 mmBtu/hour (Regulation No. 3, Part C, II.E.3.k)

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APPENDIX B

Reporting Requirements and Definitions

with codes ver 2/20/07

Please note that, pursuant to 113(c)(2) of the federal Clean Air Act, any person who knowingly:

- (A) makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to the Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State);
- (B) fails to notify or report as required under the Act; or
- (C) falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under the Act shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

The permittee must comply with all conditions of this operating permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

The Part 70 Operating Permit program requires three types of reports to be filed for all permits. All required reports must be certified by a responsible official.

Report #1: Monitoring Deviation Report (due at least every six months)

For purposes of this operating permit, the Division is requiring that the monitoring reports are due every six months unless otherwise noted in the permit. All instances of deviations from permit monitoring requirements must be clearly identified in such reports.

For purposes of this operating permit, monitoring means any condition determined by observation, by data from any monitoring protocol, or by any other monitoring which is required by the permit as well as the recordkeeping associated with that monitoring. This would include, for example, fuel use or process rate monitoring, fuel analyses, and operational or control device parameter monitoring.

Report #2: Permit Deviation Report (must be reported "promptly")

In addition to the monitoring requirements set forth in the permits as discussed above, each and every requirement of the permit is subject to deviation reporting. The reports must address deviations from permit requirements, including those attributable to malfunctions as defined in this Appendix, the probable cause of

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such deviations, and any corrective actions or preventive measures taken. All deviations from any term or condition of the permit are required to be summarized or referenced in the annual compliance certification.

For purposes of this operating permit, "malfunction" shall refer to both emergency conditions and malfunctions. Additional discussion on these conditions is provided later in this Appendix.

For purposes of this operating permit, the Division is requiring that the permit deviation reports are due as set forth in General Condition 21. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. For example, quarterly Excess Emission Reports required by an NSPS or Regulation No. 1, Section IV.

In addition to the monitoring deviations discussed above, included in the meaning of deviation for the purposes of this operating permit are any of the following:

- (1) A situation where emissions exceed an emission limitation or standard contained in the permit;
- (2) A situation where process or control device parameter values demonstrate that an emission limitation or standard contained in the permit has not been met;
- (3) A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by the permit; or,
- (4) A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only if the emission point is subject to CAM)

For reporting purposes, the Division has combined the Monitoring Deviation Report with the Permit Deviation Report. All deviations shall be reported using the following codes:

1 = Standard: When the requirement is an emission limit or standard 2 = Process: When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed
 6 = Record: When the requirement is recordkeeping
 7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the

Compliance Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

Report #3: Compliance Certification (annually, as defined in the permit)

Submission of compliance certifications with terms and conditions in the permit, including emission limitations, standards, or work practices, is required not less than annually.

Compliance Certifications are intended to state the compliance status of each requirement of the permit over the certification period. They must be based, at a minimum, on the testing and monitoring methods specified in the

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permit that were conducted during the relevant time period. In addition, if the owner or operator knows of other material information (i.e. information beyond required monitoring that has been specifically assessed in relation to how the information potentially affects compliance status), that information must be identified and addressed in the compliance certification. The compliance certification must include the following:

- The identification of each term or condition of the permit that is the basis of the certification;
- Whether or not the method(s) used by the owner or operator for determining the compliance status with each permit term and condition during the certification period was the method(s) specified in the permit. Such methods and other means shall include, at a minimum, the methods and means required in the permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Clean Air Act, which prohibits knowingly making a false certification or omitting material information;
- The status of compliance with the terms and conditions of the permit, and whether compliance was continuous or intermittent. The certification shall identify each deviation and take it into account in the compliance certification. Note that not all deviations are considered violations.¹
- Such other facts as the Division may require, consistent with the applicable requirements to which the source is subject, to determine the compliance status of the source.

The Certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only for emission points subject to CAM)

Note the requirement that the certification shall identify each deviation and take it into account in the compliance certification. Previously submitted deviation reports, including the deviation report submitted at the time of the annual certification, may be referenced in the compliance certification.

1

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¹ For example, given the various emissions limitations and monitoring requirements to which a source may be subject, a deviation from one requirement may not be a deviation under another requirement which recognizes an exception and/or special circumstances relating to that same event.

Startup, Shutdown, Malfunctions and Emergencies,

Understanding the application of Startup, Shutdown, Malfunctions and Emergency Provisions, is very important in both the deviation reports and the annual compliance certifications.

Startup, Shutdown, and Malfunctions

Please note that exceedances of some New Source Performance Standards (NSPS) and Maximum Achievable Control Technology (MACT) standards that occur during Startup, Shutdown or Malfunctions may not be considered to be non-compliance since emission limits or standards often do not apply unless specifically stated in the NSPS. Such exceedances must, however, be reported as excess emissions per the NSPS/MACT rules and would still be noted in the deviation report. In regard to compliance certifications, the permittee should be confident of the information related to those deviations when making compliance determinations since they are subject to Division review. The concepts of Startup, Shutdown and Malfunctions also exist for Best Available Control Technology (BACT) sources, but are not applied in the same fashion as for NSPS and MACT sources.

Emergency Provisions

Under the Emergency provisions of Part 70 certain operational conditions may act as an affirmative defense against enforcement action if they are properly reported.

DEFINITIONS

Malfunction (NSPS) means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Malfunction (SIP) means any sudden and unavoidable failure of air pollution control equipment or process equipment or unintended failure of a process to operate in a normal or usual manner. Failures that are primarily caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

Emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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APPENDIX B: Monitoring and Permit Deviation Report - Part I

- 1. Following is the **required** format for the Monitoring and Permit Deviation report to be submitted to the Division as set forth in General Condition 21. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.
- 2. Part II of this Appendix B shows the format and information the Division will require for describing periods of monitoring and permit deviations, or malfunction or emergency conditions as indicated in the Table below. One Part II Form must be completed for each Deviation. Previously submitted reports (e.g. EER's or malfunctions) may be referenced and the form need not be filled out in its entirety.

| FACILITY NAME: Platte River Power Au | thority – Rawhide Energy Station |
|--------------------------------------|--|
| OPERATING PERMIT NO: 03OPLR261 | |
| REPORTING PERIOD: | (see first page of the permit for specific reporting period and dates) |

| Operating | | Devia Noted I Perio | During | Deviation Code ² | Upset/Em Condition During I | Reported |
|---------------------------|--|---------------------------|--------|--------------------------------|-----------------------------------|----------|
| Permit Unit ID | Unit Description | YES | NO | | YES | NO |
| S601, S602, S603, S604 | Four (4) GE 7EA Natural Gas Fired Combustion Turbines | | | | | |
| S605 | One (1) GE 7FA Natural Gas Fired Combustion Turbine | | | | | |
| | General Conditions | | | | | |
| | Insignificant Activities | | | | | |

¹ See previous discussion regarding what is considered to be a deviation. Determination of whether or not a deviation has occurred shall be based on a reasonable inquiry using readily available information.

1 = Standard: When the requirement is an emission limit or standard **2 = Process:** When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed
 6 = Record: When the requirement is recordkeeping
 7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance Assurance

Monitoring (CAM) Rule) has occurred.

9 =Other: When the deviation is not covered by any of the above categories

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² Use the following entries, as appropriate:

Monitoring and Permit Deviation Report - Part II FACILITY NAME: Platte River Power Authority – Rawhide Energy Station OPERATING PERMIT NO: 03OPLR261 REPORTING PERIOD: Emergency _____ Upset ____ N/A _____ Is the deviation being claimed as an: (For NSPS/MACT) Did the deviation occur during: Startup _____ Shutdown _____ Malfunction _____ Normal Operation _____ OPERATING PERMIT UNIT IDENTIFICATION: Operating Permit Condition Number Citation **Explanation of Period of Deviation** Duration (start/stop date & time) Action Taken to Correct the Problem Measures Taken to Prevent a Reoccurrence of the Problem Dates of Upsets/Emergencies Reported (if applicable) Deviation Code _____ Division Code QA

SEE EXAMPLE ON THE NEXT PAGE

EXAMPLE

| FACILITY NAME: OPERATING PERMIT NO: REPORTING PERIOD: | 96OPZZXXX | | | | |
|---|-------------------------|--------------------------------|--------------|------|-------------|
| Is the deviation being claimed | l as an: | Emergency | Upset _ | XX | N/A |
| (For NSPS/MACT) Did the d | eviation occur during: | Startup Sl Normal Operation | | | Malfunction |
| OPERATING PERMIT UNIT | Γ IDENTIFICATION: | | | | |
| Asphalt Plant with a Scrubber | for Particulate Contro | ol - Unit XXX | | | |
| Operating Permit Condition N | Number Citation | | | | |
| Section II, Condition 3.1 - Op | eacity Limitation | | | | |
| Explanation of Period of Devi | iation | | | | |
| Slurry Line Feed Plugged | | | | | |
| <u>Duration</u> | | | | | |
| START- 1730 4/10/96 END- 1800 4/10/96 | | | | | |
| Action Taken to Correct the F | <u>Problem</u> | | | | |
| Line Blown Out | | | | | |
| Measures Taken to Prevent R | eoccurrence of the Pro | <u>bblem</u> | | | |
| Replaced Line Filter | | | | | |
| Dates of Upsets/Emergencies | Reported (if applicable | <u>e)</u> | | | |
| 4/10/96 to S. Busch, APCD | | | | | |
| Deviation Code | | D | vivision Cod | e QA | |

Monitoring and Permit Deviation Report - Part III

REPORT CERTIFICATION

| FACILITY IDENTIFICATION NUMBER: (| 5 |
|---|---|
| PERMIT NUMBER: 03OPLR261 | |
| REPORTING PERIOD: | (see first page of the permit for specific reporting period and dates) |
| | Il Deviation Reports must be certified by a responsible official as A, Section I.B.54. This signed certification document must be d. |
| STATEMENT OF COMPLETENESS | |
| e e e e e e e e e e e e e e e e e e e | abmitted in its entirety and, based on information and belief that the statements and information contained in this submittal |
| 1-501(6), C.R.S., makes any false material | e that any person who knowingly, as defined in Sub-Section 18- statement, representation, or certification in this document is nished in accordance with the provisions of Sub-Section 25-7 |
| Printed or Typed Name | Title |
| Signature of Responsible Official | Date Signed |
| Note: Deviation reports shall be submitted permit. No copies need be sent to the U.S. | ed to the Division at the address given in Appendix D of this EPA. |
| | |

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APPENDIX C

Required Format for Annual Compliance Certification Report

Following is the format for the Compliance Certification report to be submitted to the Division and the U.S. EPA annually based on the effective date of the permit. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.

| FACILITY NA | ME: Platte River Power A | uthority - Rawhide | Energy Station | n |
|--|---|---|---|--|
| OPERATING P | ERMIT NO: 03OPLR261 | | | |
| REPORTING P | ERIOD: | | | |
| I. Facility | Status | | | |
| in the Permit, e | entire reporting period, this source ach term and condition of which in a compliance is/are the method(s) | is identified and inc | luded by this | |
| with all terms included by this method used to | ossible exception of the deviations and conditions contained in the P is reference, with the possible excepted determine compliance for each terrated and described in the deviation reference. | ermit, each term are eption of the deviate m and condition is the | nd condition of ions identified ne method spe | of which is identified and d in the table below. The ecified in the Permit, unless |
| Operating | Unit Description | Deviations | Monitoring | Was Compliance |

| Operating Permit Unit ID | Unit Description | Deviations Reported ¹ | | Monitoring Method per Permit? ² | | Was Compliance Continuous or Intermittent? ³ | |
|--------------------------------|--|-------------------------------------|---------|--|----|---|--------------|
| | | Previous | Current | YES | NO | Continuous | Intermittent |
| S601, S602, S603, S604 | Four (4) GE 7EA Natural Gas Fired Combustion Turbines | | | | | | |
| S605 | One (1) GE 7FA Natural Gas Fired Combustion Turbine | | | | | | |
| | General Conditions | | | | | | |
| | Insignificant Activities ⁴ | | | | | | |

¹ If deviations were noted in the previous deviation report (i.e. for the first six months of the annual reporting period), put an "X" under "previous". If deviations were noted in the current deviation report (i.e. for the last six months of the annual reporting period), put an "X" under "current". Mark both columns if both apply.

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² Note whether the method(s) used to determine the compliance status with each term and condition was the method(s) specified in the permit. If it was not, mark "no" and attach additional information/explanation.

³Note whether the compliance status with each term and condition provided was continuous or intermittent. "Intermittent Compliance" can mean either that noncompliance has occurred or that the owner or operator has data sufficient to certify compliance only on an intermittent basis. Certification of intermittent compliance therefore does not necessarily mean that any noncompliance has occurred.

The Periodic Monitoring requirements of the Operating Permit program rule are intended to provide assurance that even in the absence of a continuous system of monitoring the Title V source can demonstrate whether it has operated in continuous compliance for the duration of the reporting period. Therefore, if a source 1) conducts all of the monitoring and recordkeeping required in its permit, even if such activities are done periodically and not continuously, and if 2) such monitoring and recordkeeping does not indicate non-compliance, and if 3) the Responsible Official is not aware of any credible evidence that indicates non-compliance, then the Responsible Official can certify that the emission point(s) in question were in continuous compliance during the applicable time period.

| period | l. | | | |
|------------------|-----------|--------------|---|--|
| ⁴ Com | pliance s | status for t | these sources shall be based on a reasonable inquir | y using readily available information. |
| II. | Statu | s for Ac | ecidental Release Prevention Program: | |
| | A. | | facility is subject is not sention Program (Section 112(r) of the Fede | subject to the provisions of the Accidental Releaseral Clean Air Act) |
| | B. | | oject: The facility is on 112(r). | is not in compliance with all the requirements |
| | | 1. | A Risk Management Plan wil authority and/or the designated central l | l be has been submitted to the appropria ocation by the required date. |
| III. | Certi | fication | | |
| C.R. | S., mak | kes any | | on who knowingly, as defined in § 18-1-501(6), or certification in this document is guilty of provisions of § 25-7 122.1, C.R.S. |
| | | Printe | ed or Typed Name | Title |
| | | | | |
| | | | Signature | Date Signed |
| | | compli | Signature ance certifications shall be submitted to ection Agency at the addresses listed in Ap | Date Signed the Air Pollution Control Division and to the spendix D of this Permit. |

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APPENDIX D

Notification Addresses

1. Air Pollution Control Division

Colorado Department of Public Health and Environment Air Pollution Control Division Operating Permits Unit APCD-SS-B1 4300 Cherry Creek Drive S. Denver, CO 80246-1530

ATTN: Matt Burgett

2. United States Environmental Protection Agency

Compliance Notifications:

Office of Enforcement, Compliance and Environmental Justice Mail Code 8ENF-T U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

Permit Modifications, Off Permit Changes:

Office of Partnerships and Regulatory Assistance Air and Radiation Programs, 8P-AR U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

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APPENDIX E

Permit Acronyms

Listed Alphabetically:

NESHAP -

NSPS -

P -PE -

PM -

| AIRS - | Aerometric Information Retrieval System |
|-------------------|--|
| AP-42- | EPA Document Compiling Air Pollutant Emission Factors |
| APEN - | Air Pollution Emission Notice (State of Colorado) |
| APCD - | Air Pollution Control Division (State of Colorado) |
| ASTM - | American Society for Testing and Materials |
| BACT - | Best Available Control Technology |
| BTU - | British Thermal Unit |
| CAA - | Clean Air Act (CAAA = Clean Air Act Amendments) |
| CCR - | Colorado Code of Regulations |
| CEM - | Continuous Emissions Monitor |
| CF - | Cubic Feet (SCF = Standard Cubic Feet) |
| CFR - | Code of Federal Regulations |
| CO - | Carbon Monoxide |
| COM - | Continuous Opacity Monitor |
| CRS - | Colorado Revised Statute |
| EF - | Emission Factor |
| EPA - | Environmental Protection Agency |
| FI - | Fuel Input Rate in MMBtu/hr |
| FR - | Federal Register |
| G - | Grams |
| Gal - | Gallon |
| GPM - | Gallons per Minute |
| HAPs - | Hazardous Air Pollutants |
| HP - | Horsepower |
| HP-HR - | Horsepower Hour (G/HP-HR = Grams per Horsepower Hour) |
| LAER - | Lowest Achievable Emission Rate |
| LBS - | Pounds |
| M - | Thousand |
| MM - | Million |
| MMscf - | Million Standard Cubic Feet |
| MMscfd - | Million Standard Cubic Feet per Day |
| N - | Normal Operation, as referenced in permit limitation table in Section II.1 |
| N/A or NA - | Not Applicable |
| NO _X - | Nitrogen Oxides |
| | AP-42- APEN - APCD - ASTM - BACT - BTU - CAA - CCR - CEM - CFR - CO - COM - CRS - EF - EPA - FI - FR - G - Gal - GPM - HAPs - HP-HR - LAER - LBS - M - MM - MMscf - MMscfd - N - N/A or NA - |

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New Source Performance Standards Process Weight Rate in Tons/Hr

Particulate Emissions

Particulate Matter

National Emission Standards for Hazardous Air Pollutants

| PM_{10} - | Particulate | Matter ' | Under | 10 Microns |
|-------------|-------------|----------|-------|------------|
|-------------|-------------|----------|-------|------------|

PPM - Parts Per Million

PPMV - Parts Per Million, by Volume
PPMVD - Parts per Million, by Volume, Dry
PSD - Prevention of Significant Deterioration

PTE - Potential To Emit

RACT - Reasonably Available Control Technology

SCC - Source Classification Code

SCF - Standard Cubic Feet

SD - Shutdown, as referenced in permit limitation table in Section II.1

SIC - Standard Industrial Classification

SO₂ - Sulfur Dioxide

SU - Start-Up, as referenced in permit limitation table in Section II.1

TPY - Tons Per Year

TSP - Total Suspended Particulate VOC - Volatile Organic Compounds

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APPENDIX F

Permit Modifications

| DATE OF REVISION | MODIFICATION TYPE | SECTION NUMBER, CONDITION NUMBER | DESCRIPTION OF REVISION |
|---------------------|----------------------|---|-------------------------|
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